HOGAN & HARTSON
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March 12, 1999

BY HAND DELIVERY

The Secretary
Federal Communications Commission
The Portals -- Room TW-325
445 12th Street, S.W.
Washington, DC 20554

Re: Alabama Educational Television Commission
Clarification to Petition for Rule Making for
Amendment to Section 73.622 of the Commission's Rules
Digital Television Table of Allotments
(Mt. Cheaha, Alabama)

Dear Madam Secretary:

On behalf of Alabama Educational Television Commission ("AETC"), the licensee of WCIQ-TV, Mt. Cheaha, Alabama (the "Station"), enclosed please find an original and four copies of a revised Technical Exhibit to the above-referenced Petition for Rule Making, which was filed with the Commission on February 17, 1999 (the "Petition"). The attached Technical Exhibit, which includes both an engineering statement and a completed technical section of an FCC Form 301, better reflects the Commission's specifications in a recent Public Notice with regard to calculating interference resulting from proposed changes in digital television allotments. 1/ Accordingly, AETC respectfully requests that the Commission replace the Technical Exhibit that was filed with the Petition with the attached.

Please file-stamp the additional copy of this amendment, and return it to the undersigned. Please also direct communications to the undersigned.

Respectfully submitted,

HOGAN & HARTSON L.L.P.

By: _____
F. William LeBeau

Attorneys for the Alabama Educational Television Commission

Enclosures

1/ Public Notice, Additional Application Processing Guidelines for Digital Television (issued on August 10, 1998).

EXHIBIT 1

(Revised Technical Statement)

ENGINEERING STATEMENT OF
RYAN WILHOUR
ON BEHALF OF
ALABAMA EDUCATIONAL TELEVISION COMMISSION
LICENSEE OF TV BROADCAST STATION

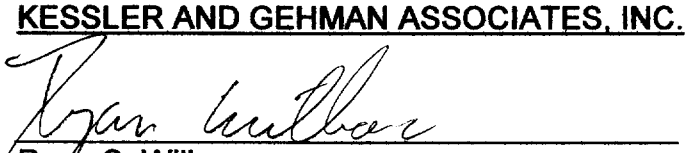
WCIQ-TV, MT. CHEAHA, AL

The Alabama Educational Television Commission is licensed to operate WCIQ-TV on channel 7 with an ERP of 316.0 kW at an antenna height of 911 meters above mean sea level ("AMSL"). The FCC allocated channel 56 for DTV service using an ERP of 1,000 kW at an antenna height of 610 meters above average terrain ("AAT") to replicate the licensed channel 7 Grade B coverage contour. This will require the purchase of a new transmitting plant consisting of a high power UHF DTV transmitter, large coaxial transmission line or waveguide, and a medium gain transmitting antenna. The UHF DTV will consume substantially more power than the present VHF transmitter. Furthermore, DTV channel 56 is not within the "core" channels planned for television broadcasting after the transition from NTSC to DTV is complete. Therefore, at the end of the transition period WCIQ-TV would change to channel 7 for its permanent DTV operation requiring the purchase of another new DTV transmitter. At that time The Alabama Educational Television commission would be left with a relatively new UHF DTV transmitting plant which would be very costly to decommission, and for which it has absolutely no use.

As an alternative, I have completed studies that indicate that channel 4 with an ERP of 6.3 kW at an effective antenna height of 562 meters above average terrain could be used to achieve the same coverage area as the current NTSC operation and would also eliminate the need for a future modification. Attached to this document is a sample application for the requested channel 4 amendment. This request for change in DTV channels meets the required mileage separation to other NTSC / DTV co-channel and adjacent channel stations as described in section §73.623(d). Therefore, it is respectfully requested that the DTV channel allotted to WCIQ-TV, at Mt. Cheaha be changed from channel 56 to channel 4.

This engineering statement has been prepared by Ryan C. Wilhour who is a graduate of the University of Florida with a Bachelor of Science degree in electrical engineering, and is an associate of Kessler and Gehman Associates, Inc., with offices in Gainesville, Florida.

KESSLER AND GEHMAN ASSOCIATES, INC.



Ryan C. Wilhour
Engineering consultant
March 1, 1999

APPLICATION FOR CONSTRUCTION PERMIT
TELEVISION BROADCAST STATION WCIQ
DTV CHANNEL 4 ERP 6.3 kW AT 562 METERS
ABOVE AVERAGE TERRAIN ALABAMA
EDUCATIONAL TELEVISION COMMISSION
MT. CHEAHA, ALABAMA

KESSLER AND GEHMAN ASSOCIATES, INC.
TELECOMMUNICATIONS CONSULTING ENGINEERS

KGA

507 NW 60th Street, Suite C
Gainesville, Florida 32607

SECTION V-D - DTV BROADCAST ENGINEERING DATA	FOR COMMISSION USE ONLY File No. _____ SSB Referral Date _____ Referred By _____
Name of Applicant **ALABAMA EDUCATIONAL TELEVISION COMMISSION**	Call Letters (if issued) **WCIQ-DT**

Complete Questions 1-5 of the Certification Checklist and provide all data and information for the proposed facility, as requested in Items 1-22, below. If an item is not applicable, enter N/A.

Certification Checklist: A correct answer of "Yes" to all of the questions below will ensure an expeditious grant of a construction permit. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.

1 The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:

(a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622. ☐ Yes ☒ No

(b) It will operate from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622. ☒ Yes ☐ No

(c) It will operate with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622. ☒ Yes ☐ No

2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1. 1307. ☒ Yes ☐ No

3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community. ☒ Yes ☐ No

4. The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable. ☒ Yes ☐ No

5. The antenna structure to be used by this facility has been registered by the Commission and will not require reregistration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7. ☒ Yes ☐ No

Application Data:

1. Channel
   (a) DTV Channel No. 4
   (b) Associated analog TV station channel no., if any 7

2. Principal community to be served:

City or Town	State
MT. CHEAHA	**AL**

3. Effective radiated power (average power): *(in the main lobe of radiation, if directional)* **6.3** kw

4. Height of antenna radiation center above average terrain (HAAT): *(to the nearest meter)* **562** meters

Section V-D -D TV BROADCAST ENGINEERING DATA (Page 2)

5. **Purpose of Application:** *(check appropriate boxes)*

- ☒ Construct a new (main) facility
- ☐ Construct a new auxiliary facility
- ☐ Modify construction permit for main facility
- ☐ Modify construction permit for auxiliary antenna
- ☐ Modify licensed main facility
- ☐ Modify licensed auxiliary antenna

If purpose is to modify, indicate the nature of change(s) by checking appropriate box(es) and specify the file number(s) of the authorizations affected.

- ☐ Antenna supporting structure height
- ☐ Effective radiated power
- ☐ Antenna height above average terrain
- ☐ Channel
- ☐ Antenna location
- ☐ Antenna system
- ☐ Other (summarize)

File Number(s) _____

---

6. **Exact location of transmitting antenna**

(a) Give address, city/state or if no address, specify distance and bearing relative to the nearest town or landmark.
MT CHEAHA 8.3 MILES SE OF MUNFORD, AL

(b) Geographical coordinates *(to nearest second)*. If mounted on element of an AM array, specify coordinates or center of array. Otherwise, specify tower location. Specify South Latitude and East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed. *(The Commission requires coordinates based on NAD 27.)*

Latitude	**33**	0	**29**	'	**06**	"	Longitude	**85**	0	**48**	'	**32**	"

7. (a) Elevation *(to the nearest meter)*

(1) of site above mean sea level; **716** meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and **176** meters

(3) of the top of supporting structure above mean sea level [(a)(1) + (a)(2)]. **892** meters

(b) Height of radiation center: *(to the nearest meter)*

(1) above ground; and **148** meters

(2) above mean sea level [(a)(]) + (b)(1)]; **864** meters

8. Attach as an Exhibit sketch(es) of the supporting structure, labeling all elevations required in item 7 above. If mounted on an AM directional array element, specify heights and orientations of all array towers, as well as location of any FM radiator. *** SEE ATTACHED ENGINEERING STATMENT**

Exhibit No. **EXHIBIT 2***

Section V-D -D TV BROADCAST ENGINEERING DATA (Page 3)

9. Antenna

(a) Manufacturer **DIELECTRIC** (b) Model No. **THP-0-2-1**

(c) Is a directional antenna proposed? ☐ Yes ☒ No

If Yes, specify major lobe azimuth(s) **N/A** degrees True and attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). Exhibit No. **N/A**

(d) Is electrical beam tilt proposed? ☐ Yes ☒ No

If Yes, specify **N/A** degrees electrical beam tilt and attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). Exhibit No. **N/A**

(e) Is mechanical beam tilt proposed? ☐ Yes ☒ No

If Yes, specify **N/A** degrees mechanical beam tilt toward azimuth **N/A** True and attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). Exhibit No. **N/A**

(f) The proposed antenna *is: (check only one box)*

☒ Horizontally polarized ☐ Circularly polarized ☐ Elliptically polarized ☐ Other: **N/A**

10. Will the antenna be mounted on an antenna structure which has been registered with the Commission, to include the proposed antenna installation? ☒ Yes ☐ No

If Yes, provide the seven digit registration number and, unless item 11 also applies, proceed to item 15. **1036421**

11. Has the owner of the antenna structure filed an application for registration with the Commission that will include the proposed facility? ☐ Yes ☒ No

If yes, provide the date FCC Form 854 was filed and proceed to item 15. **N/A**

12. (if applicable) If the antenna structure is not yet registered but will be under the Commission's phased registration plan, has the FAA previously determined that the structure would not adversely affect safety in air navigation? ☐ Yes ☐ No **N/A**

If Yes. proceed to item 15.

13. Antenna structure will be shielded by existing structures of a permanent and substantial character or by natural terrain or topographic features of equal or greater height, and would be located in the congested area of a city, town or settlement where it is evident beyond all reasonable doubt that the structure is so shielded that it will not adversely affect safety in air navigation. and therefore does not require registration. ☐ Yes ☐ No **N/A**

If yes, submit as an Exhibit a detailed explanation and/or diagram to support your claim and skip to item 15. Exhibit No. **N/A**

*** SEE ATTACHED ENGINEERING STATMENT**

Section V-D -D TV BROADCAST ENGINEERING DATA (Page 4)

14. Antenna structure does not otherwise meet FAA Notification criteria as defined under 47 C.F.R. Section 17.7 and therefore does not require registration. ☐ Yes ☐ No **N/A**

If Yes, give reason below.
N/A

15. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☒ Yes ☐ No

If Yes, give call letter(s) or file number(s) or both, **WCIQ-TV, BLET405**

16 Does the application propose to correct previous site coordinates? ☒ Yes* ☐ No

If Yes, list old coordinates.

Latitude	**33**	°	**29**	'	**07**	"	Longitude	**85**	°	**48**	'33	"

17. Attach as an Exhibit a topographic map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the provisions of 47 C.F.R. Section 73.625(b). The map must further display clearly and legibly the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No. **EXHIBIT 5***

18. Attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No. **EXHIBIT 6***

(a) the proposed transmitting location, and the radials along which profile graphs have been prepared;
(b) the DTV coverage contour as established in 47 C.F.R. Section 73.625(b); and
(c) the legal boundaries of the principal community to be served.

19. Terrain and coverage data (to be calculated in accordance with 47 C.F.R. Section 73.625(b))

Source of terrain data: *(check only one box below)*

☐ Linearly interpolated 30-second database (Source: _____)

☒ Linearly interpolated 3-second database (Source: **DEFENSE MAPING INDUSTRY**)

☐ 7.5 minute topographic map

☐ Other *(briefly summarize)*

*** SEE ATTACHED ENGINEERING STATEMENT**

Section V-D -D TV BROADCAST ENGINEERING DATA (Page 5)

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 kin (meters)	Predicted distance to the DTV Coverage Contour (kilometers)
* 90	537	118
0	616	124
45	564	120
90	537	118
135	545	118
180	463	112
225	524	117
270	611	123
315	633	125

*Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of I MAT.

20. Does the proposed facility satisfy the interference protection provisions of 47 C.F.R. Section 73.623(a)? (Applicable only if **Certification Checklist** items I (a), (b), or (c) are answered "No.") ☒ Yes ☐ No

If No, attach as an Exhibit justification therefore, including a summary of any related previously granted waivers. Exhibit No. N/A

21. If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefore. (Applicable only if **Certification Checklist** item 3 is answered Exhibit No. N/A

22. Environmental Statement. *(See 47CF.R. Section 1.1301 et seq.)*

(a) If a Commission grant of this application comes within 47 C.F.R. Section 1.1307, such that it may have a significant environmental impact, submit as an Exhibit an Environmental Assessment required by 47 C.F.R. Section 1. 1 31 1. Exhibit No. N/A

(b) If No, explain briefly why not. **THE PROPOSED CONSTRUCTION WOULD HAVE NO SIGNIFICANT ENVIRONMENTAL IMPACT AS DEFINED IN §1.1307 OF THE FCC RULES. ***

(c) Pursuant to OST Bulletin No. 65, the applicant must explain in an Exhibit what steps will be taken to limit the RF radiation exposure to the public and to persons authorized access to the tower site. In addition, where there are multiple contributors to radio frequency radiation, you must certify that the established RF radiation exposure procedures will be coordinated with all stations. *

***SEE ATTACHED ENGINEERING STATEMENT.**

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed)	Relationship to Applicant (e.g., Consulting Engineer)
RYAN C. WILHOUR	**CONSULTING ENGINEER**
Signature	Address (include ZIP Code)
	507 NW 60TH ST. SUITE C GAINESVILLE FL 32605
Date	Telephone No. (include Area Code)
JANUARY 28, 1999	**352-332-3157**

ENGINEERING STATEMENT OF RYAN C. WILHOUR OF THE FIRM OF KESSLER AND GEHMAN ASSOCIATES, INC., CONSULTING ENGINEERS IN CONNECTION WITH AN APPLICATION FOR THE ALABAMA EDUCATIONAL TELEVISION COMMISSION FOR A CONSTRUCTION PERMIT FOR TELEVISION BROADCAST STATION WCIQ-TV WHICH WOULD OPERATE ON DTV CHANNEL 4 WITH A MAXIMUM EFFECTIVE RADIATED POWER OF 6.3 KILOWATTS HORIZONTALLY POLARIZED AT AN EFFECTIVE ANTENNA HEIGHT OF 562 METERS ABOVE AVERAGE TERRAIN IN THE VICINITY OF MT. CHEAHA, ALABAMA

I, Ryan C. Wilhour, am an associate of Kessler and Gehman Associates, Inc. with offices in Gainesville, Florida. I am a graduate of the University of Florida with a Bachelor of Science Degree in electrical engineering.

This firm has been employed by the Alabama Educational Television Commission to make engineering studies and to prepare the engineering portion for construction permit for television broadcast station WCIQ-TV to operate on DTV channel 4 with a maximum effective radiated power of 6.3 kilowatts horizontally polarized at an effective antenna height of 562 meters above average terrain in the vicinity of Mt. Cheaha, Alabama.

The Alabama Educational Television Commission is the licensee, File No. BLET405, of the television broadcast station WCIQ-TV that operates on NTSC channel 7.

ATTACHED FIGURES

In carrying out the engineering studies the following attached figures were prepared by me or under my supervision:

1. Proposed engineering specifications (Exhibit 1)
2. Elevation drawing of the antenna system (Exhibit 2)
3. Antenna Elevation Pattern (Exhibit 3)
4. USGS 7.5 minute topographic quadrangle showing the proposed transmitter location and coordinate lines (Exhibit 5)
5. Map showing the predicted DTV coverage contour (Exhibit 6)
6. Maps showing the proposed de minimis interference to co-channel and adjacent channel TV stations (Exhibit 7A – Exhibit 7F).

TRANSMITTER LOCATION

It is proposed to use the existing support structure extending 152 meters above ground upon which the proposed Dielectric THP-O-2-1 horizontally polarized non-directional antenna will be side mounted as demonstrated in Exhibit 2. The FCC tower registration reflects the correct coordinates, ground elevation, overall height AMSL, and overall height AGL for the existing tower. Thus, this application was prepared to these specifications.

The proposed construction would have no significant environmental impact as defined in §1.1307 of the FCC Rules. The NTSC transmitter will continue to operate and will produce an effective radiated power of 316.0 kW which will produce a power density on the ground at the base of the tower of 0.2 mW/cm^2 which is 20.0% of the maximum allowable exposure assuming the beam maximum of the antenna is directed toward the ground. The DTV operation would similarly produce a power flux density of 0.01 mW/cm^2 which is 0.99% of the maximum allowable exposure. Combined the power density would be 20.99% of the maximum allowed by the ANSI requirements. However, since the relative field of the vertical radiation patterns are less than 0.15 at the vertical angles more than 5 degrees below the horizon, the maximum possible power density at any point on the ground would be much less than the maximum allowed exposure level of 1.00 mW/cm^2 for controlled or occupational exposure and 0.2 mW/cm^2 for uncontrolled exposure. The applicant will cooperate with any other users of the tower by reducing the power to the antenna or if necessary completely cutting it off in order to protect maintenance workers on the tower. In addition the applicant will erect a fence and install warning signs to keep trespassers away from the tower.

The applicant accepts full responsibility for the elimination of any objectionable interference including that caused by intermodulation to facilities in existence or authorized prior to the grant of this application.

WCIQ was initially allotted an ERP of 1000.0 kW on channel 56 with an antenna HAAT of 610 M. Channel 56 is not in the final DTV core spectrum (channels 2 - 51) and thus would require modification before December 31, 2006. As an alternative this application proposes to use channel 4 with a reduced ERP to achieve the same coverage area as its NTSC facility. This request for a change in DTV channels meets the required mileage separation to other NTSC / DTV co-channel and adjacent channel stations as described in section §73.623(d).

The maps depicted in Exhibit 7 demonstrate the areas of interference based on Longley - Rice version 1.2.2 to DTV/NTSC stations that fail to meet the spatial requirements specified by the FCC. All of the exhibits demonstrate that no new interference is caused within the surrounding channel's service areas.

KESSLER AND GEHMAN ASSOCIATES, INC.

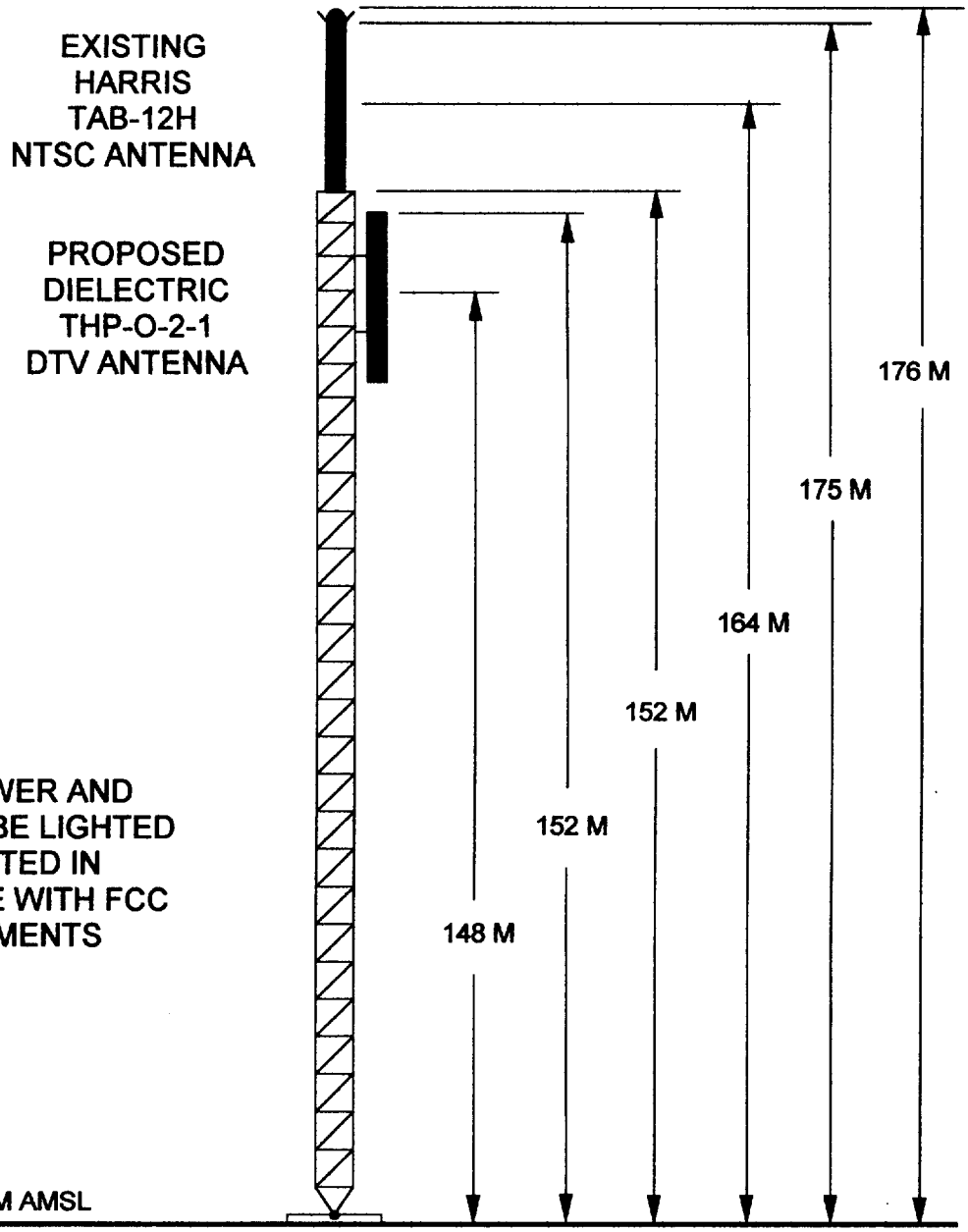
RYAN C. WILHOUR
Engineering Consultant

WCIQ - DT
MT. CHEAHA, ALABAMA

ENGINEERING SPECIFICATIONS

A.	Transmitter Site		
	North Latitude	33° 29' 06"	
	West Longitude	85° 48' 32"	
	Street Address	At Cheaha Mountain 8.3 Miles SE of Munford, Alabama.	
B.	Proposed Facility		
	DTV Channel	Number	4
		Frequency	66-72 MHz
C.	Antenna Height		
	Height of site above mean sea level (AMSL).		716m
	Overall height of structure above ground (Including all appurtenances)		176m
	Overall height of structure above mean sea level (Including all appurtenances)		892m
	Height of site above average terrain		414m
	Effective height of antenna above ground		148m
	Effective height of antenna above average terrain		562m
	Effective height of antenna above mean sea level		864m
D.	Antenna Parameters - Horizontal Polarization		
	Maximum antenna gain in beam maximum		4.31dB
	Maximum antenna gain in horizontal plane		4.31dB
	Maximum effective radiated power		8.00dBk
	In beam maximum		6.30kW
	Maximum effective radiated power		8.00dBk
	In horizontal plane		6.30kW

ELEVATION VIEW



OVERALL HEIGHT AGL:	176 M
OVERALL HEIGHT AMSL:	892 M
DTV RADIATION CENTER AGL:	148 M
DTV RADIATION CENTER AMSL:	864 M

COORDINATES:

N. LATITUDE	33° 29' 06"
W. LONGITUDE	85° 48' 32"

NOTE: NOT TO SCALE

KESSLER & GEHMAN
TELECOMMUNICATIONS CONSULTING ENGINEERS
507 N.W. 60th Street, Suite C
Gainesville, Florida 32607

WCIQ - DT

MT CHEAHA, ALABAMA

990128

EXHIBIT 2

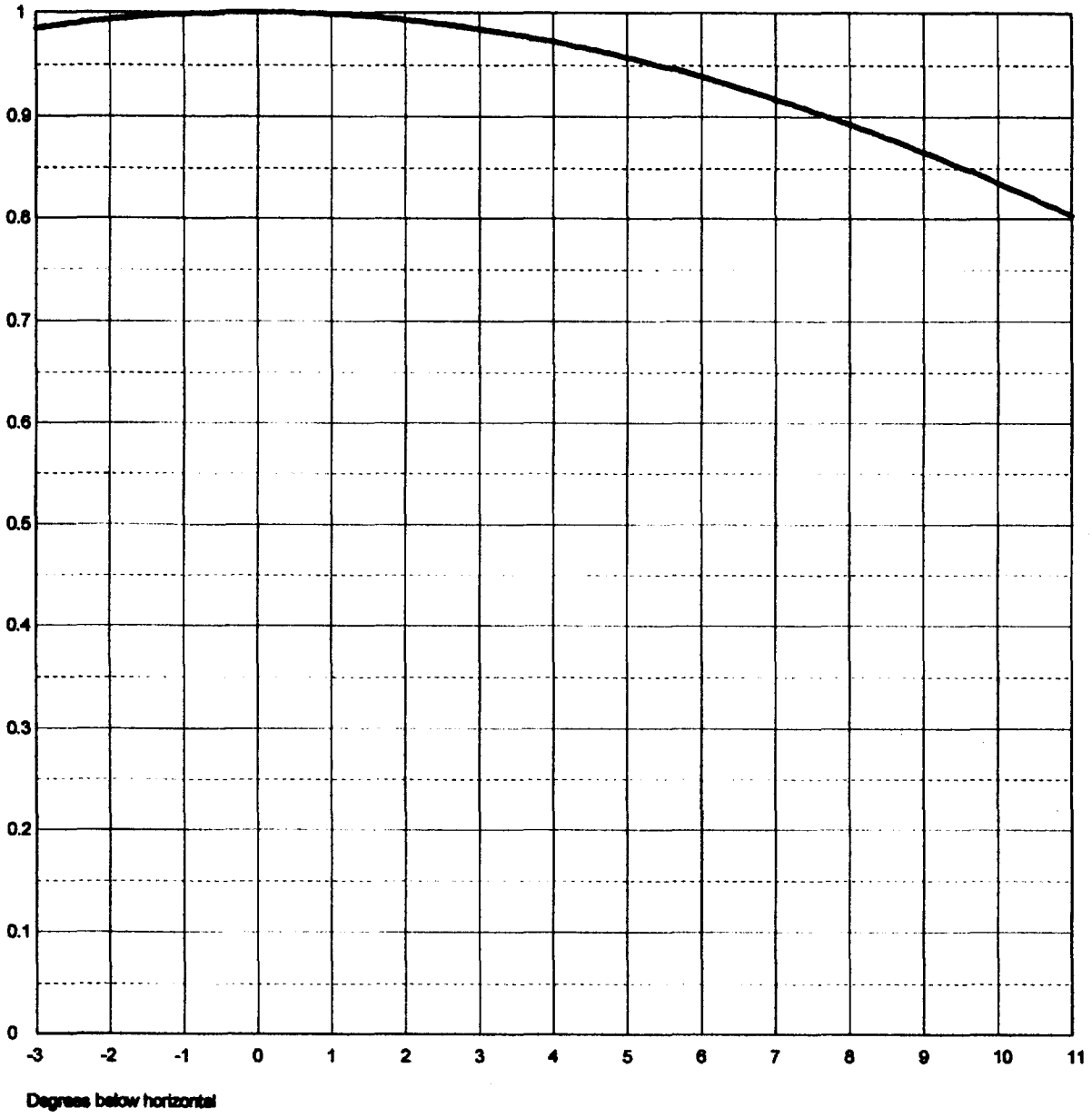
Dielectric

A Unit of General Signal

Date	990128		
Call Letters	WCIQ-DT	Channel	4
Location	MT. CHEAHA, AL		
Customer	ALA. EDU. TV COM.		
Antenna Type	THP-O-2-1		

ELEVATION PATTERN

RMS Gain at Main Lobe	2.1 (3.22 dB)	Beam Tilt	0.00 Degrees
RMS Gain at Horizontal	2.1 (3.22 dB)	Frequency	69.00 MHz
Calculated / Measured	Calculated	Drawing #	02H02100



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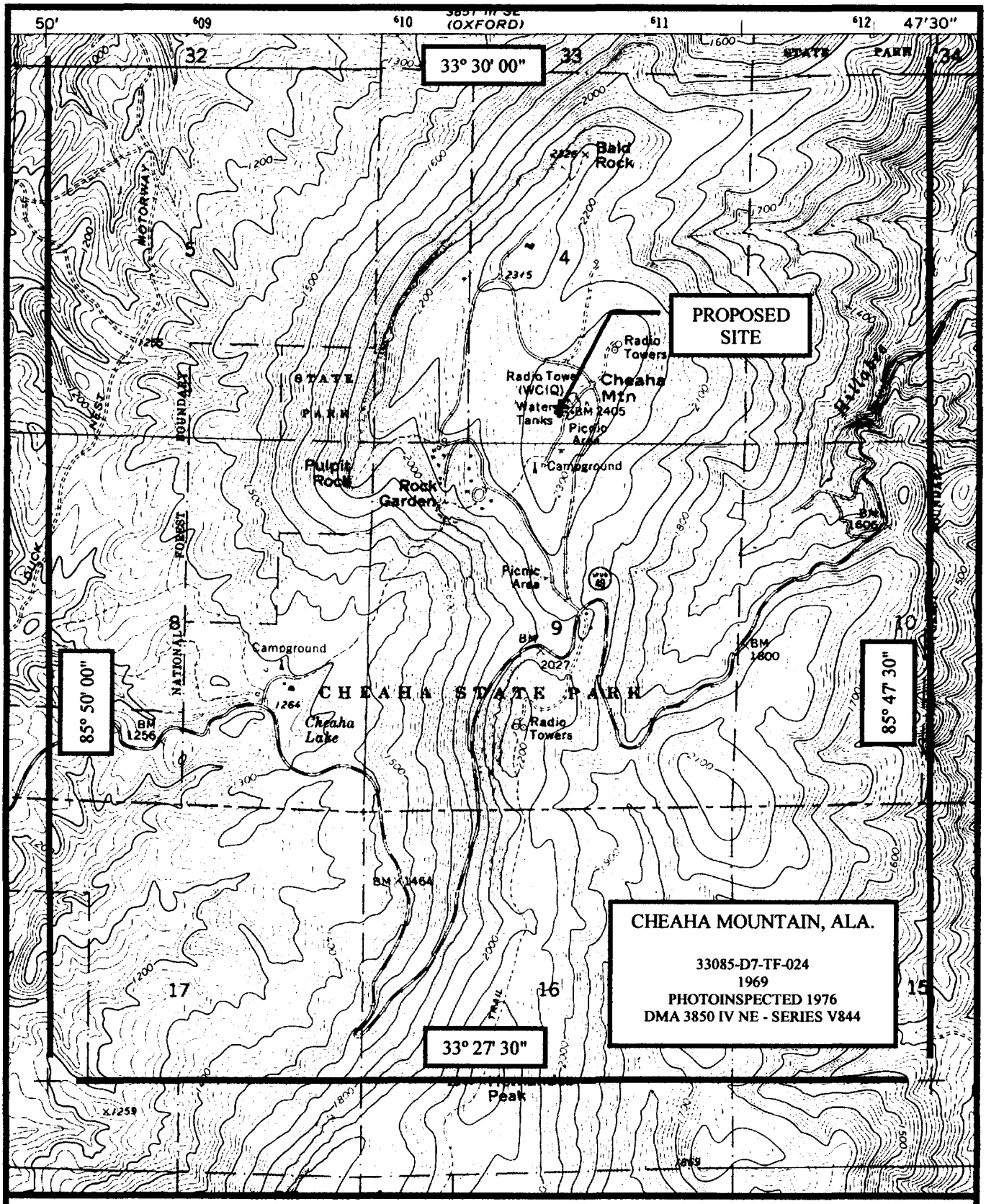
507 N.W. 60th Street, Suite C
Gainesville, Florida 32607

WCIQ - DT

MT. CHEAHA, ALABAMA

990128 EXHIBIT 3



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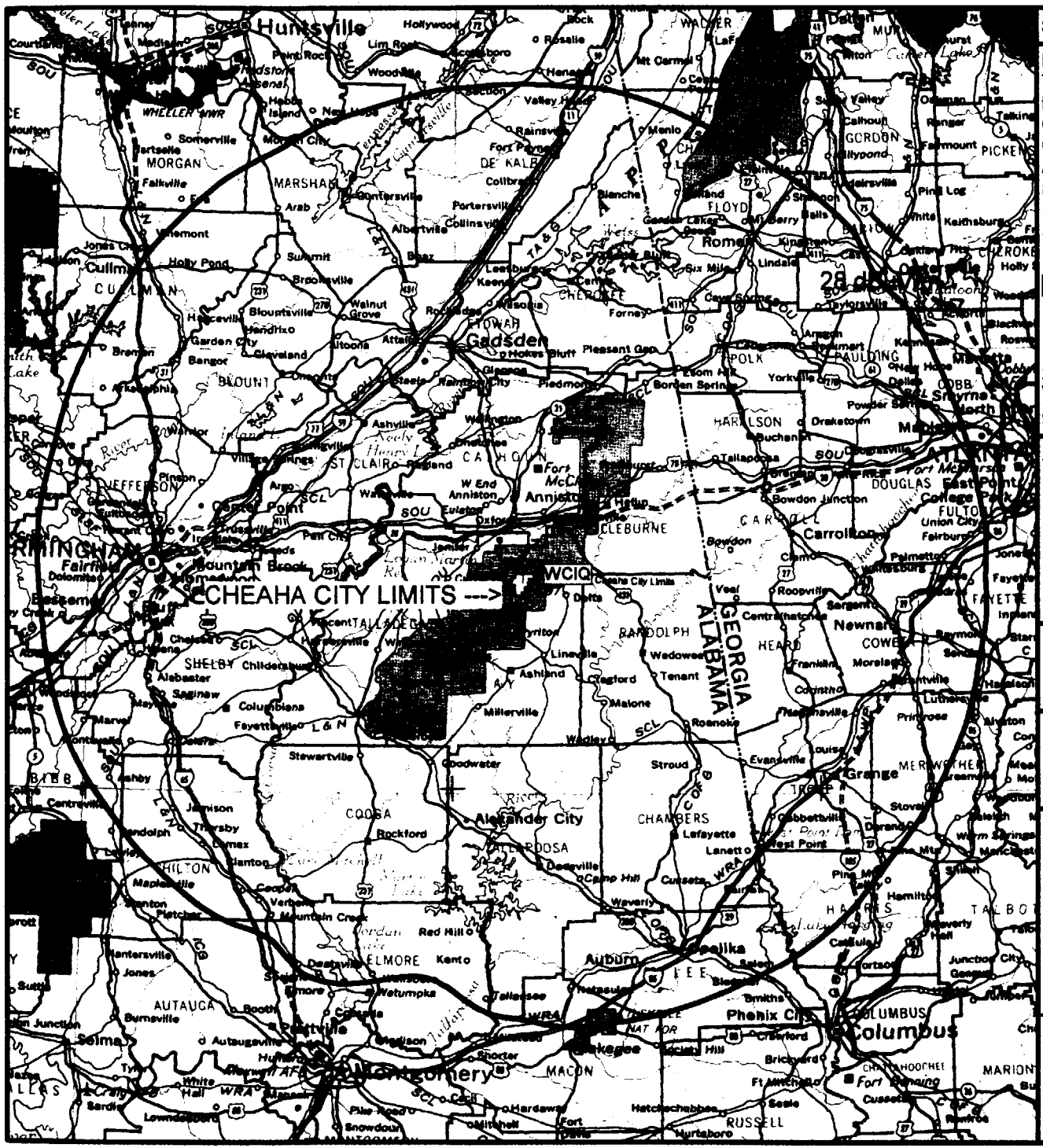
507 N.W. 60th Street, Suite C
Gainesville, Florida 32607

WCIQ - DT

CHEAHA, ALABAMA

990128

EXHIBIT 5



SIGNAL™: WCIQ DTV COVERAGE MAP.map

Prop. model: FCC-FCC
Time: 90.0% Loc.: 50.0%
Prediction Confidence Margin: 0.0dB
Climate: Continental Temperate
Groundcover: none
Atmospheric Abs.: none
K Factor: 1.333
RX Antenna - Type: DA
Height: 9.1 m AGL Gain: 0.00 dBd
Field strength at remote

■ = 28.0 dBuV/m

Min. receiver threshold level: -83.8 dBmW

Site	Ant. Elev. AMSL (m)	ERPd (dBW)	Ant. Type /Orient.	Coordinates
WCIQ	864.0	38.00	DA-H	N33°29'06.00"
group: 1	69.0000 MHz		0.0	W85°48'32.00"

Notes

EFFECTIVE RADIATED POWER 6.3 KW
EFFECTIVE HEIGHT AAT 562 M

SOUTHERN MISSISSIPPI VALLEY STATES
USGS MAP

DTV CHANNEL 4

KILOMETERS

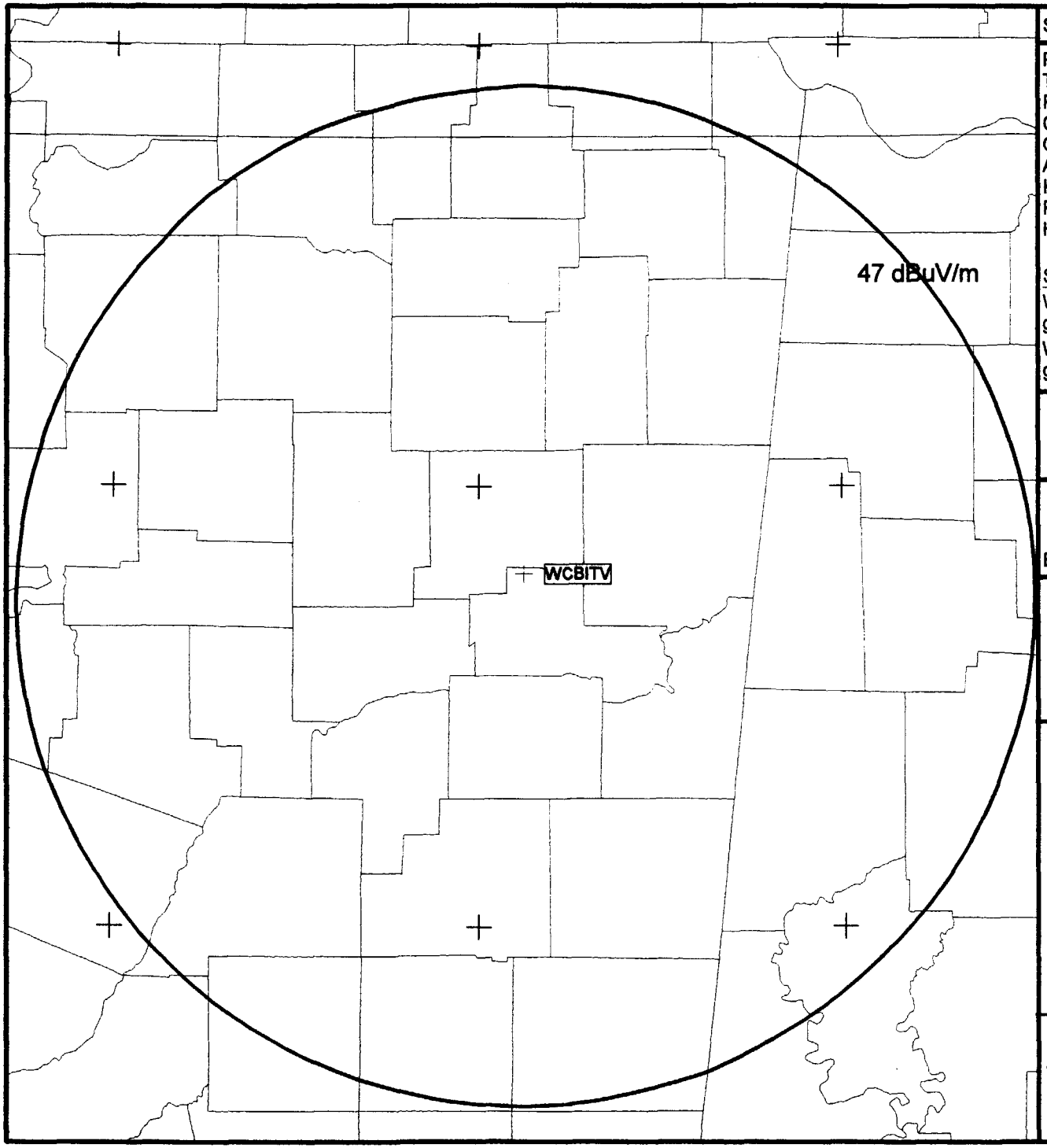
-25 0 50

WCIQ-DT

DTV COVERAGE COUNTOUR

EXHIBIT 6 990128

KESSLER & GEHMAN
TELECOMMUNICATIONS CONSULTING ENGINEERS
507 N.W. 60th Street Suite C
Gainesville, Florida 32607



SIGNAL™: WCIQ DT TO WCBITV.map

Prop. model: Longley-Rice v1.2.2
Time: 50.0% Loc.: 50.0%
Prediction Confidence Margin: 0.0dB
Climate: Continental Temperate
Groundcover: none
Atmospheric Abs.: none
K Factor: 1.333
RX Antenna - Type: DA
Height: 9.1 m AGL Gain: 0.00 dBd

Site	Ant. Elev. AMSL (m)	ERPd (dBW)	Ant. Type /Orient.	Coordinates
WCBITV	695.0	55.00	Omni-H	N33°48'06.00"
group: 1	69.0000 MHz			W88°52'40.00"
WCIQDT	864.0	38.00	Omni-H	N33°29'06.00"
group: 1	69.0000 MHz			W85°48'32.00"

KILOMETERS

-25 0 50

WCIQ DT

INTERFERENCE TO WCBI TV

EXHIBIT 7A 990128

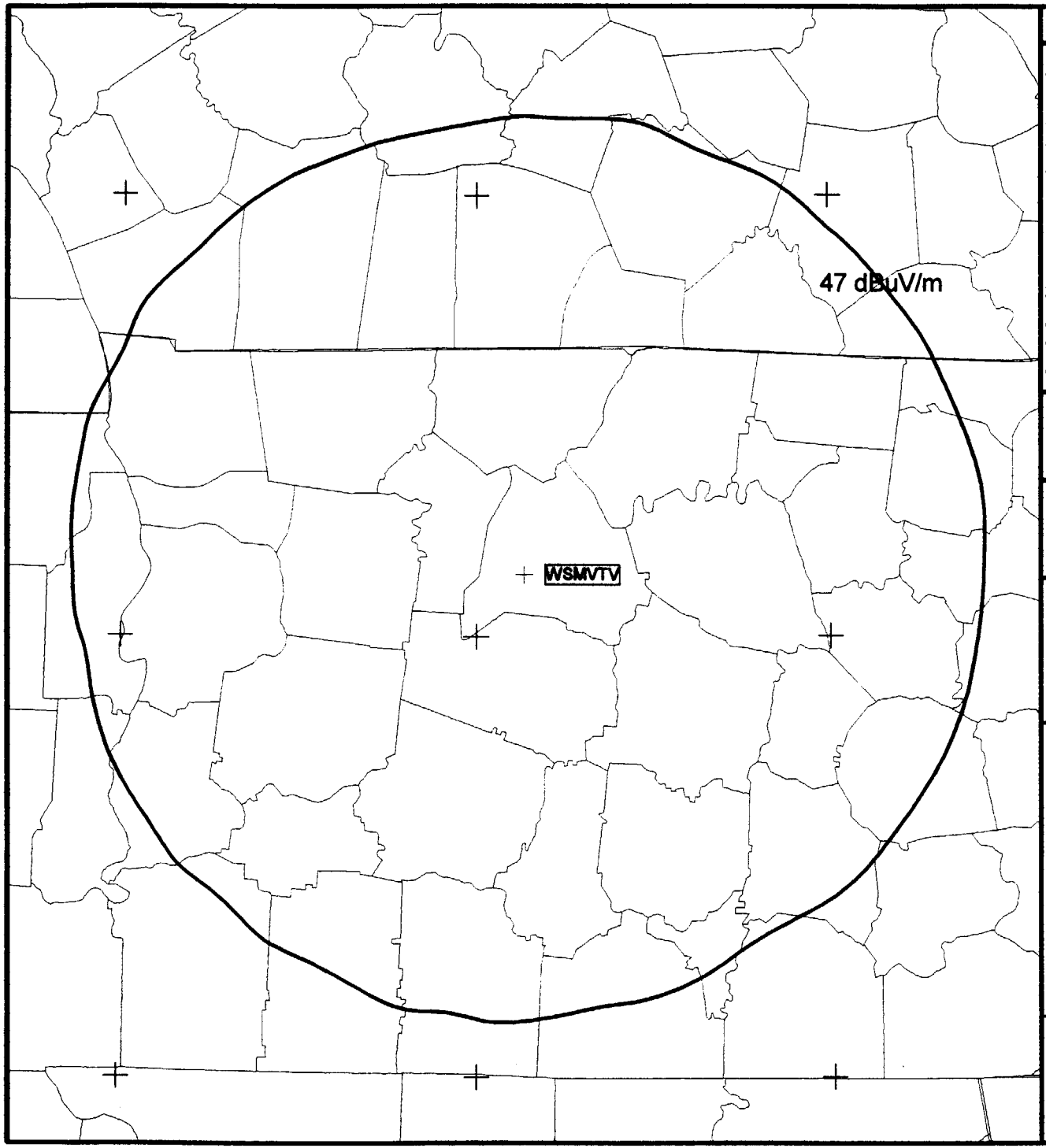
COLOR KEY

■ Areas that have lost service due to interference but would be served without interference.

DEMOGRAPHIC RESULTS

Amount of 2% int.
0.0%

KESSLER & GEHMAN
TELECOMMUNICATIONS CONSULTING ENGINEERS
507 NW 60th Street Suite C
Gainesville, Florida 32607



SIGNAL™: WCIQ DT TO WSMVTV.map

Prop. model: Longley-Rice v1.2.2
Time: 50.0% Loc.: 50.0%
Prediction Confidence Margin: 0.0dB
Climate: Continental Temperate
Groundcover: none
Atmospheric Abs.: none
K Factor: 1.333
RX Antenna - Type: DA
Height: 9.1 m AGL Gain: 0.00 dBd

Site	Ant. Elev. AMSL (m)	ERPd (dBW)	Ant. Type /Orient.	Coordinates
WSMVTV	611.0	50.00	Omni-H	N36°08'27.00"
group: 1	69.0000 MHz			W86°51'56.00"
WCIQDT	864.0	38.00	Omni-H	N33°29'06.00"
group: 1	69.0000 MHz			W85°48'32.00"

KILOMETERS

-25 0 50

WCIQ DT

INTERFERENCE TO WSMV TV

EXHBIT 7B 990128

COLOR KEY

■ Areas that have lost service due to interference but would be served without interference.

DEMOGRAPHIC RESULTS

Amount of 2% int.
0.0%

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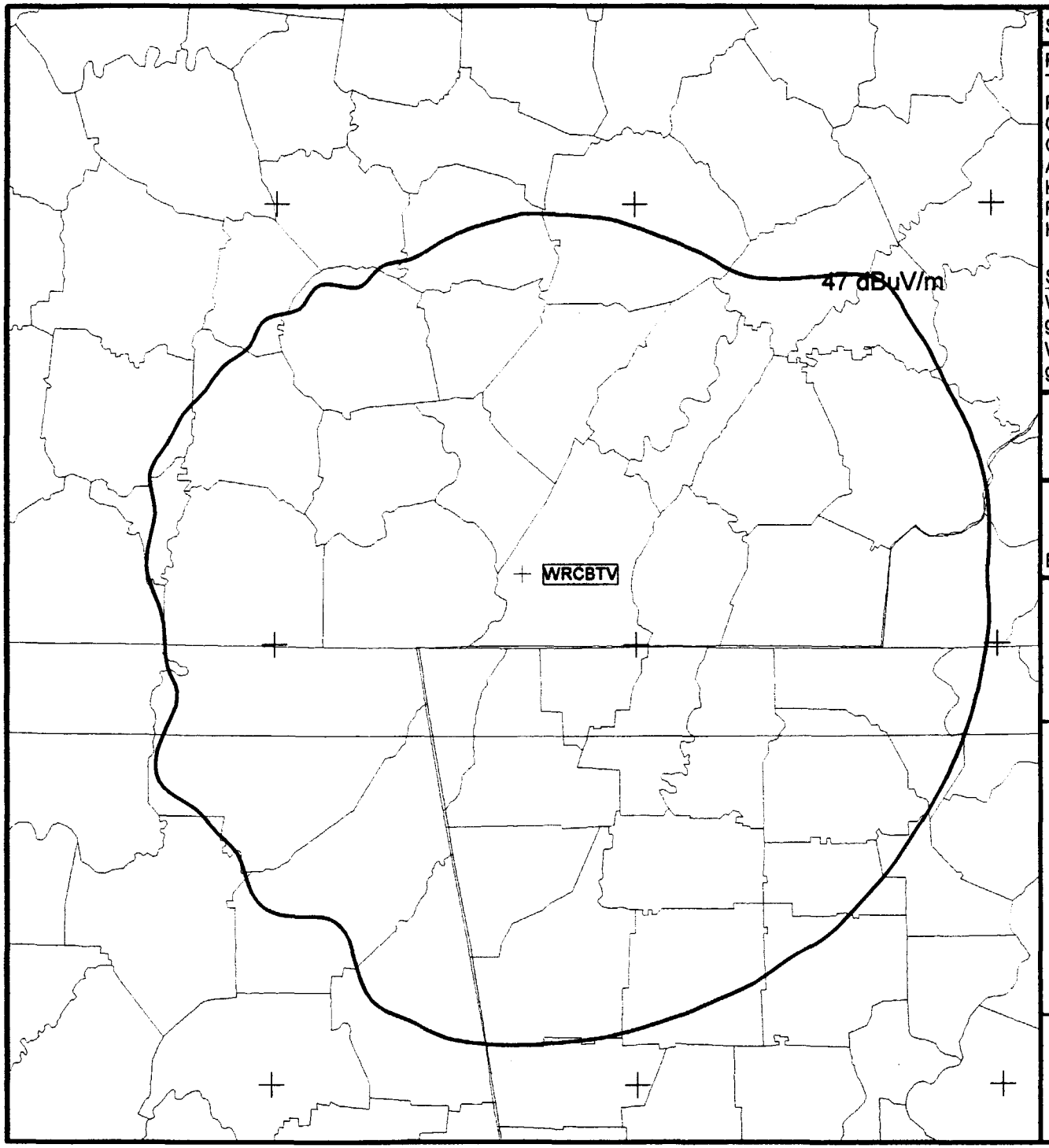
TELECOMMUNICATIONS CONSULTING ENGINEERS
507 NW 60th Street Suite C
Gainesville, Florida 32607



SIGNAL™: WCIQ DT TO WRCB.map

Prop. model: Longley-Rice v1.2.2
Time: 50.0% Loc.: 50.0%
Prediction Confidence Margin: 0.0dB
Climate: Continental Temperate
Groundcover: none
Atmospheric Abs.: none
K Factor: 1.333
RX Antenna - Type: DA
Height: 9.1 m AGL Gain: 0.00 dBd

Site	Ant. Elev. AMSL (m)	ERPd (dBW)	Ant. Type/Orient.	Coordinates
WRCBTV	705.0	50.00	Omni-H	N35°09'40.00"
group: 1	63.0000 MHz			W85°18'52.00"
WCIQDT	864.0	38.00	Omni-H	N33°29'06.00"
group: 1	69.0000 MHz			W85°48'32.00"

KILOMETERS

-25 0 50

WCIQ DT

INTERFERENCE TO WRCB TV

EXHIBIT 7C 990128

COLOR KEY

■ Areas that have lost service due to interference but would be served without interference.

DEMOGRAPHIC RESULTS

Amount of 2% int.
0.0%

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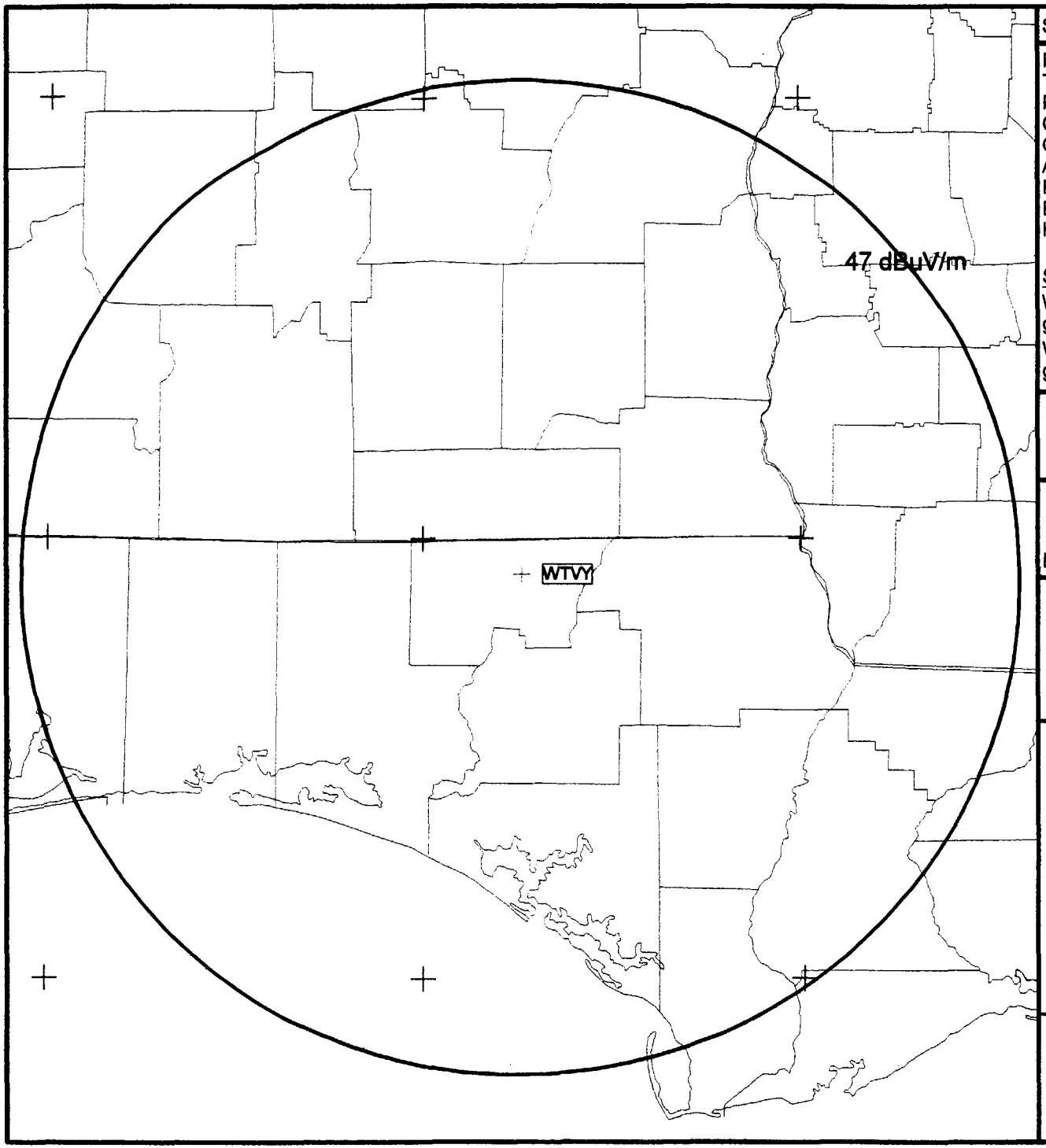
Gainesville, Florida 32607



SIGNAL™: WCIQ DT TO WTVY.map

Prop. model: Longley-Rice v1.2.2
Time: 50.0% Loc.: 50.0%
Prediction Confidence Margin: 0.0dB
Climate: Continental Temperate
Groundcover: none
Atmospheric Abs.: none
K Factor: 1.333
RX Antenna - Type: DA
Height: 9.1 m AGL Gain: 0.00 dBd

Site	Ant. Elev. AMSL (m)	ERPd (dBW)	Ant. Type/Orient.	Coordinates
WTVY	620.0	50.00	Omni-H	N30°55'10.00"
group: 1	69.0000 MHz			W85°44'28.00"
WCIQDT	864.0	38.00	Omni-H	N33°29'06.00"
group: 1	69.0000 MHz			W85°48'32.00"

KILOMETERS

-25 0 50

WCIQ DT

INTERFERENCE TO WTVY

EXHBIT 7D 990128

COLOR KEY

■ Areas that have lost service due to interference but would be served without interference.

DEMOGRAPHIC RESULTS

Amount of 2% int.
0.0%

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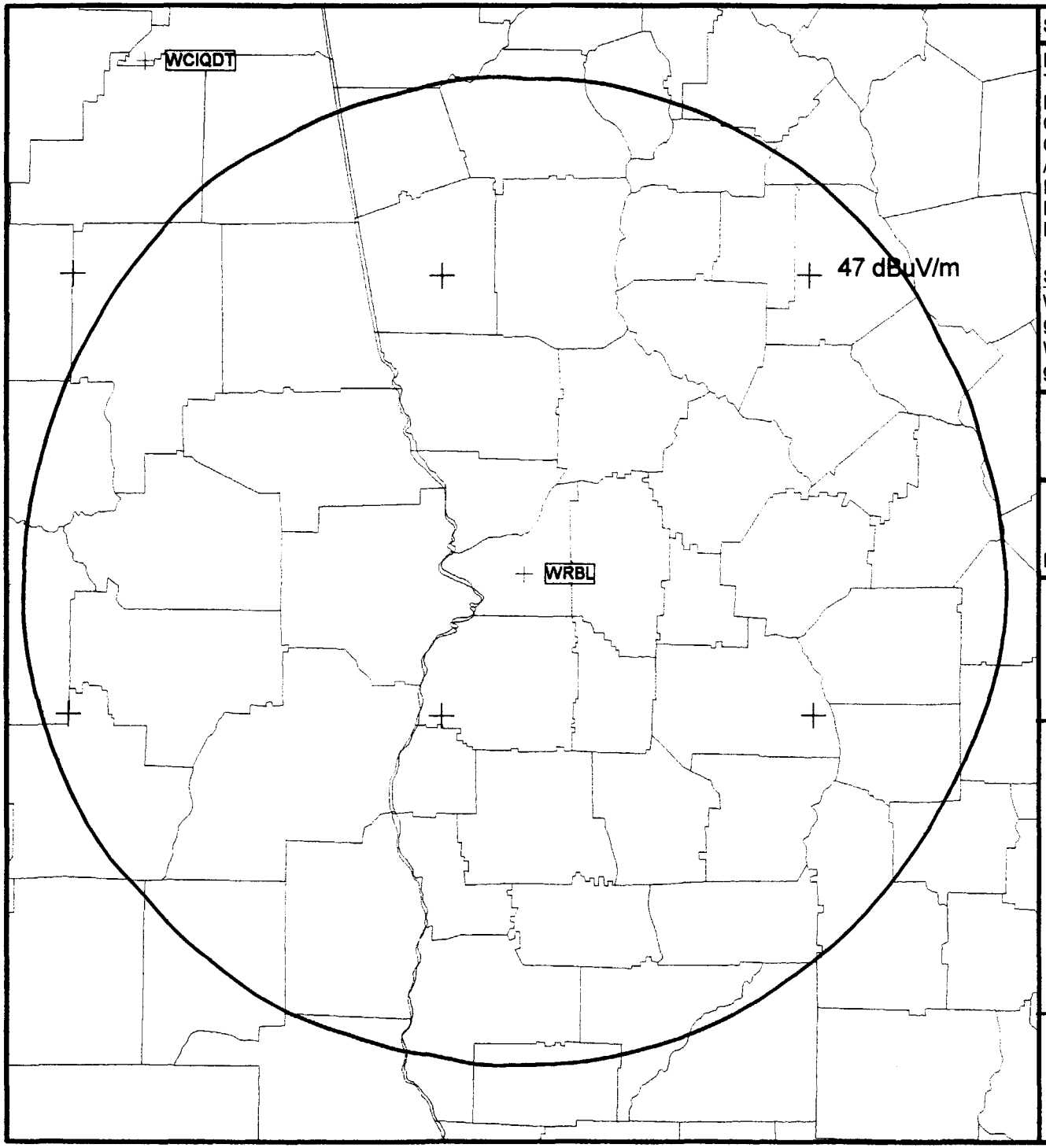
Gainesville, Florida 32607



SIGNAL™: WCIQ DT TO WRBL.map

Prop. model: Longley-Rice v1.2.2
Time: 50.0% Loc.: 50.0%
Prediction Confidence Margin: 0.0dB
Climate: Continental Temperate
Groundcover: none
Atmospheric Abs.: none
K Factor: 1.333
RX Antenna - Type: DA
Height: 9.1 m AGL Gain: 0.00 dBd

Site	Ant. Elev. AMSL (m)	ERPd (dBW)	Ant. Type/Orient.	Coordinates
WRBL	672.0	50.00	Omni-H	N32°19'25.00"
group: 1	63.0000 MHz			W84°46'46.00"
WCIQDT	864.0	38.00	Omni-H	N33°29'06.00"
group: 1	69.0000 MHz			W85°48'32.00"

KILOMETERS

-25 0 50

WCIQ DT

INTERFERENCE TO WRBL

EXHBIT 7E 990128

COLOR KEY

■ Areas that have lost service due to interference but would be served without interference.

DEMOGRAPHIC RESULTS

Amount of 2% int.
0.0%

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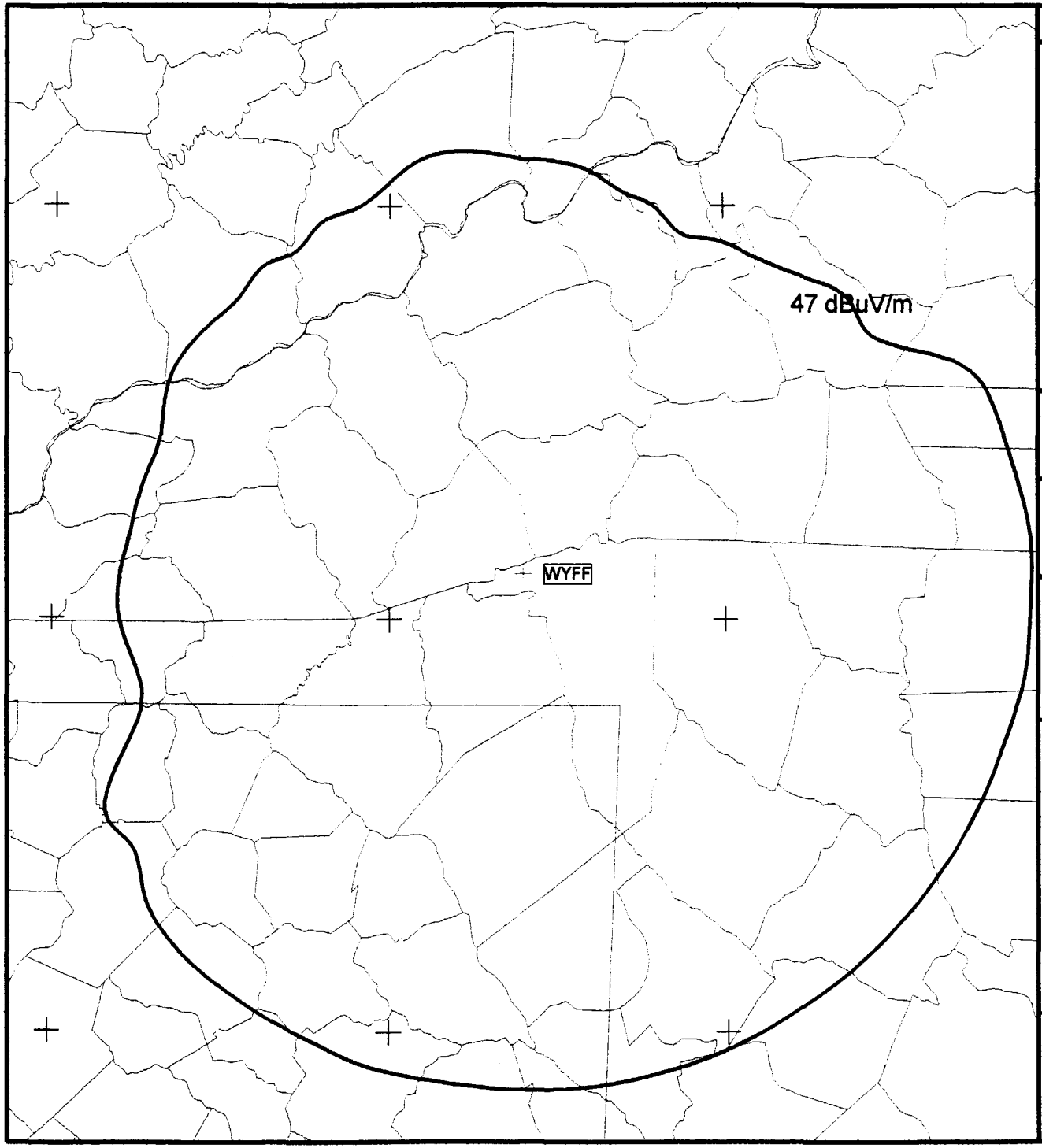

SIGNAL™: WCIQ DT TO WYFF.map

Prop. model: Longley-Rice v1.2.2
Time: 50.0% Loc.: 50.0%
Prediction Confidence Margin: 0.0dB
Climate: Continental Temperate
Groundcover: none
Atmospheric Abs.: none
K Factor: 1.333
RX Antenna - Type: DA
Height: 9.1 m AGL Gain: 0.00 dBd

Site	Ant. Elev. AMSL (m)	ERPd (dBW)	Ant. Type /Orient.	Coordinates
WYFF	1199.0	50.00	Omni-H	N35°06'40.00"
group: 1	69.0000 MHz			W82°36'17.00"
WCIQDT	864.0	38.00	Omni-H	N33°29'06.00"
group: 1	69.0000 MHz			W85°48'32.00"

KILOMETERS

-25 0 50

WCIQ DT

INTERFERENCE TO WYFF

EXHIBIT 7F 990128

COLOR KEY

■ Areas that have lost service due to interference but would be served without interference.

DEMOGRAPHIC RESULTS

Amount of 2% int.
0.0%

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